V=4m/s

M=m1+m2=45+75=120kg

By the low of saving energy:

$$m \frac{v^2}{2} = M \frac{u^2}{2}$$

where $\,$ m=120kg- mass of J&J, M=15 kg- mass of crate, v=4 m/s $\,$

u- unknown speed of crate

So we have u= $v\sqrt{m/M}$ =4* $\sqrt{120/15}$ =8 $\sqrt{2}$ m/s

Answer $8\sqrt{2}$ m/s